

ABSTRACT

A color conversion method and apparatus for a compact printer system. An image processor converts a stored image from a first tri-color space to a second tri-color space. Resultant transformation values are read from lookup tables for each color component of the stored image pixels and a single cycle interpolator unit performs linear interpolation to generate a single color component in the second tri-color space in 14 cycles.

In one example, the $L^*a^*b^*$ color space is converted to CMY color space. In another example, the RGB form is converted to the $L^*a^*b^*$ form and two extra L^* components for use in sharpening a converted image.

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